***Statement-II***

*Details of proposal approved for creation of seed infrastructure in private sector as on 10.10.2008*

| State | No. of proposal processed | Capacity of Infrastructure (Qtls) | | Amount released as 1st Installment in Rs | Total involvement of subsidy in the State (Rs) |
|---|---|---|---|---|---|
| | | Processing Capacity | Storage Capacity | | |
| Andhra Pradesh | 13 | 270000 | 85633 | 4993315 | 9986630 |
| Bihar | 1 | 20000 | 1240 | 54381 | 108762 |
| Gujrat | 7 | 130000 | 12805 | 1414055 | 3582288 |
| Haryana | 10 | 245000 | 60390 | 2734993 | 5195928 |
| Himachal Pradesh | 1 | 20000 | 0 | 64201 | 128402 |
| Karnataka | 2 | 70000 | 5930 | 585552 | 1072229 |
| Madhya Pradesh | 7 | 180000 | 59649 | 2317659 | 4514853 |
| Maharashtra | 6 | 120000 | 23023 | 1461010 | 2913337 |
| Orissa | 4 | 90000 | 18230 | 1124851 | 2258609 |
| Punjab | 6 | 215000 | 52837 | 2169746 | 4237459 |
| Rajasthan | 5 | 120000 | 17500 | 1212767 | 1768004 |
| Tamil Nadu | 21 | 255000 | 97060 | 3803472 | 7416990 |
| Uttar Pradesh | 35 | 515000 | 312808 | 13015024 | 24986663 |
| Uttaranchal | 24 | 470000 | 292348 | 7432730 | 15593636 |
| West Bengal | 7 | 145000 | 51170 | 2126885 | 4054153 |
| | 149 | 2865000 | 1090623 | 44510641 | 87817943 |

**Measures to step up agricultural research works**

†2018. SHRI JAI PARKASH AGGARWAL: Will the Minister of AGRICULTURE be pleased to state:

(a) the steps taken to expedite agriculture research works;

(b) the different works carried out under agriculture research during the last three years and current year;

(c) the Government's reaction in this regard;

(d) whether there is scarcity of agriculture scientists in the field of research work;

(e) if so, the details thereof along with reasons therefor; and

† Original notice of the question was received in Hindi.

(f) the steps proposed to be taken in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI KANTILAL BHURIA): (a) A number of projects/programmes to address several issues have been undertaken; these *interalia*, include National Agricultural Innovation Project with the support of the World bank; India-US Knowledge Initiatives; National Fund for Basic and Strategic Research in Agricultural Sciences; and Quality Seed Production in Agricultural Crops and Fisheries. Research in Crop Sciences focuses on conservation of plant genetic resources; enhanced production of food, forage, oil seed, pulses and commercial crops; seed production, technology development and plant protection; promotion of sustainable agricultural practices, dissemination of technical knowledge and development of post-harvest technologies. Research in horticulture is undertaken on fruits, vegetables, tuber and plantation crops, spices and medicinal and aromatic plants. Research is being carried out in the areas of production, reproduction, health and value addition in various species of livestock, poultry and fisheries.

(b) During the last three years, several new varieties and hybrids of different type of crops including horticulture, pulses, oilseeds and commercial crops were developed and released. Zero Till Technology was successfully implemented. Over 5000 tonnes of breeder seed is being produced every year. Developed National test Guidelines for establishing Distinctiveness, Uniformity and Stability of a number of crops. Launched Strategic Research Initiatives in Network Mode on Molecular Breeding, Gene Pyramiding, Wilt-Integrated Management etc. The number of KVKs has increased to 558.

Other achievements include:-

- Standardized molecular techniques for sex determination of dressed meat.
- Registration of documented indigenous breeds of livestock and poultry.
- Frieswal and Vrindavani crossbred cattle developed yielding 4000 kg and 3000 kg milk per lactation.
- Developed poultry birds with capacity to produce 3000 eggs per annum and rural poultry yielding 223 eggs per annum.
- Cellular gene isolated, characterized and cloned with predominant rumen bacteria for achieving better fibre digestibility of poor quality roughages.
- Process for preparation of herbal ghee with neutraceutical properties developed.
- Highly sensitive immunological test for detection of adulteration in soya milk developed.
- Platform Test for Detection of Detergent in Milk Developed.
- Developed Microbial Based 'On-Farm' Rapid kits for the detection of antibiotics residues in raw milk.
- AB-ELISA computer compatible Diagnostic Kits for Bovine Brucellosis and infectious Bovine rhinotracheitis developed.

- VP 7 recombinant based diagnostic kit replacing imported kit developed for the diagnosis of blue tongue.
- Standardization of micro-irrigation and fertigation systems.
- Development of cost-effective drainage technology including bio-drainage.
- Location-specific integrated farming systems for productivity and income enhancement.
- Package of practices for organic farming.
- Developed efficient and precision machines for agricultural production, machines to suit women farm workers, machines to reduce injury and accidents in farm operations, technologies for bio-fuels' production and utilization in agriculture and appropriate post-harvest technologies for food grains, fruits and vegetables, lac, fibre crops, livestock produce and fish.
- Undertaken research on aspects of freshwater aquaculture, coastal, aquaculture, mariculture, inland fisheries, marine fisheries, fish processing, fishery product development and food safety.

Commercialized technologies include:-

- Area specific mineral mixture;
- PPR vaccine;
- Crystoscope for timely heat detection;
- FMD and HS adjoined oil vaccine;
- Equine influenza vaccine;
- Thermostable IBD vaccine;
- Diagnostic kits for FMD surveillance;
- Flavoured milk; and
- Palada payasam mix

In the current year, efforts continue in the above mentioned areas.

(c) Positive.

(d) to (f) No, Sir. Research work has been managed by judicious redeployment of available scientific manpower. Steps have been initiated to get the vacancies in the scientific cadre filled up on top priority basis.

**Criteria for fixing minimum support price**

2019. SHRI RAMACHANDRA KHUNTIA: Will the Minister of AGRICULTURE be pleased to state:

(a) whether there is any specific criteria to fix the minimum support price for rice and wheat;

(b) whether any minimum support price has been fixed for oilseeds and onion; and